

NEPA COMPLIANCE SURVEY

327

Project Information	
Project Title:	EOR Steam Generator
DOE Code:	6730-020-51145
Project Lead:	Mark Duletsky
Date:	3-28-2011
Contractor Code:	8067-797

Project Overview	
1. Brief project description [include anything that could impact the environment]	The project will involve pulling and re-running the existing production equipment on up to 4 wells in the field. When the equipment is re-run into the well, it will have 1.66" steel tubing banded onto it that will transmit heated, very humid, air downhole. The heated, humid, air will be produced using Madison water from the field. The third party contractor equipment contains a Reverse Osmosis water filter system. The system will use approximately 11 gallons of water per day. A 300 to 500 gallon plastic water storage tank will be provided by the third party contractor to store the Madison water. The system that will be used for this test is approximately 20' long by 17' wide and is enclosed in its' own housing and is mounted on a small skid. The provided water tank will also be inside this housing. The oil production of the well will be monitored to check the efficiency of the equipment. Any oil produced from the well, along with any minute amount of water will be transported to the Tensleep battery at intervals during the test.
2. Legal location	33-66-SX-10, 41-16-SX-10, 42-61-SX-10, and 43-21-SX-10 wells
3. Duration of the project	3 Months
4. Major equipment to be used	Workover rig, steam generator, water tank, fork lift, water truck, winch truck

The table below is to be completed by the Project Lead and reviewed by the Environmental Specialist and the DOE NEPA Compliance Officer. **NOTE: If Change of Scope occurs, Project Lead must submit a new NEPA Compliance Survey and contact the Technical Assurance Department.**

	Impacts Anticipated?			If YES, then complete below
	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Water Quality				
Does the proposed project present potential for impacts on water resources or water quality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	These are all pre-existing locations. Equipment pressures will be monitored and vehicle flow lines will be visually checked for integrity. If a spill occurs, stop work will be initiated and the leakage will be checked, contained, reported, and removed according to the RMOTC SPILL / LEAK / RELEASE REPORTING AND CLEAN-UP SOP EN.8013.00
Does the project affect surface water quantity or quality under both normal operations and accident conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	These are all pre-existing locations. Equipment pressures will be monitored and vehicle flow lines will be visually checked for integrity. If a spill occurs, stop work will be initiated and the leakage will be checked, contained, reported, and removed according to the RMOTC SPILL / LEAK / RELEASE REPORTING AND CLEAN-UP SOP EN.8013.00
Does the proposed project affect groundwater quantity or quality under both normal operations and accident conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Will the project area include "Waters of the State?"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Will the project area require a Corps of Engineers permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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	Impacts Anticipated?			If YES, then complete below.
Wildlife and Habitat	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed action present potential for impacts on wildlife or habitat?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Does the project impact state or federally listed threatened and endangered species?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Human Health Effects	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project present potential for effects on human health? e.g.: Hanta virus, radiological exposure, or chemical exposure (must provide MSDS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Transportation	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project involve transportation of radiological sources or hazardous materials (including explosives)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Waste Management and Waste Minimization	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Are pollution prevention and waste minimization practices needed in the proposed project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Does project plan establish procedures in compliance with local, state and/or federal laws and guidelines affecting the generation, transportation, treatment, storage or disposal of hazardous and other wastes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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EOR Steam Generator



Document Review Form

Please review the attached document and mark-up as needed with a **colored pen or a colored pencil**. When you are done, either forward it to the next person on the list or back to the originator. Feel free to add others to the list if you feel it is appropriate. Please note this is not an approval form, but it is an opportunity to provide feedback on the draft. Please use this opportunity to make this process as correct as **practical**.

Originator: Mary Allemand

Document Name: ~~Chemical Approval Form~~ **NCS # 327**

Document Number: TA.CA.

FOR STEAM GENERATOR

Date of Routing:

Required	FYI	Name	Title	Signature	Date
X		Anne Theriault	ESS&H Tech Env Spec.	<i>AWA</i>	3/28/2011
X		Sammy Alsobrook	TA Manager	See attached email	
X		Mark Duletsky	Project Manager	See attached email	
X		Mike Taylor	TA Director	<i>Michael Taylor</i>	3-30-11

Return completed form to Anne Theriault

Theriault, Anne

From: Alsobrook, Sammy
Sent: Monday, March 28, 2011 3:59 PM
To: Theriault, Anne
Subject: RE: 327 NEPA for EOR Stema Generator Draft

Anne,
It looks good to me. I expect this will go to Mike Taylor for his review.
Thank you,
Sammy



Sammy E. Alsobrook, CSP | Technical Assurance Manager |
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Field Testing | Demonstration | Technology Transfer | Neutral Environment

From: Theriault, Anne
Sent: Monday, March 28, 2011 2:49 PM
To: Alsobrook, Sammy
Subject: 327 NEPA for EOR Stema Generator Draft

Sammy,
Mark Duletsky has provided his concurrence with this NEPA and agrees that it has all of the needed elements. Please review the NEPA at the following link.

[http://pipeline/sites/TAD/Docs/General%20TAD%20Documents/Anne/327%20NEPA%20EOR%20Steam%20Generator%203.28.2011%20\(DRAFT\).docx](http://pipeline/sites/TAD/Docs/General%20TAD%20Documents/Anne/327%20NEPA%20EOR%20Steam%20Generator%203.28.2011%20(DRAFT).docx)

Please add any comments, questions or changes using the Track Changes feature.

As soon as you have looked through the NEPA, please send me an e-mail either stating your approval or specifications for changes to be made.

Please remember that we have a RMOTC goal of a turnaround of less than 7 days.

Thanks!



Anne Theriault | Environmental Specialist | anne.theriault@rmotc.doe.gov
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Theriault, Anne

From: Duletsky Mark
Sent: Monday, March 28, 2011 2:43 PM
To: Theriault, Anne
Subject: RE: 327 NEPA Compliance survey for EOR Steam Generator

Anne,
I just reviewed it, and the description looks great. I will try to be more detailed on my "first" attempt next time. I have been putting a general description of the test in the past. Thanks.
Mark

From: Theriault, Anne
Sent: Monday, March 28, 2011 1:29 PM
To: Duletsky Mark
Subject: RE: 327 NEPA Compliance survey for EOR Steam Generator

Okay, Mark.

I think this looks pretty good so I am going to need you to read through it once more, to make sure I didn't miss anything or miss state something. Once you have done so, please send me an email stating that you approve and agree and all that good stuff. Feel free to make changes to the document using the track changes features. As soon as we have it hammered out between us I will send it on with your blessings to Sammy and Mike.

[http://pipeline/sites/TAD/Docs/General%20TAD%20Documents/Anne/327%20NEPA%20EOR%20Steam%20Generator%203.28.2011%20\(DRAFT\).docx](http://pipeline/sites/TAD/Docs/General%20TAD%20Documents/Anne/327%20NEPA%20EOR%20Steam%20Generator%203.28.2011%20(DRAFT).docx)

Thanks Mark!!



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From: Duletsky Mark
Sent: Monday, March 28, 2011 1:03 PM
To: Theriault, Anne
Subject: RE: 327 NEPA Compliance survey for EOR Steam Generator

Anne,
We'd planned on using Madison water as their equipment has an RO system built into it. The system uses about 10 to 12 gallons of water per day, and they were planning on bringing a 300 to 500 gallon plastic water tank to store water. The system actually injects very hot, HUMID air as opposed to actual steam, so there will be no water coming out of the well. Yes, all of the oil will be taken to the Ten Sleep battery. I understand the system is about 20' long by 7' wide. It is mounted on a small skid, and enclosed in its own house. The water tank will be in the enclosure. I hope this helps. Thanks.
Mark